

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) ~~Said~~ An electromechanical valve actuator ~~(301, 500)~~ for internal combustion engines, equipped with a polarized electromagnet ~~(300, 504, 506)~~ exerting ~~[[a]]~~ magnetic action on a magnetic plate ~~(302, 502)~~ subjected to a mechanical restoring action, which ~~[[said]]~~ magnetic action ~~[[can]]~~ tends to compensate the mechanical action and maintains the plate ~~(302, 502)~~ in a distant position from the electromagnet, characterized in that the actuator comprises means to ensure that the ~~displacements of the~~ plate ~~[[are]]~~ is controlled in displacement solely by this electromagnet and the mechanical restoring action ~~[[in]]~~ such ~~a way that~~ the plate performs shuttle movements starting from the distant position.
2. (Currently Amended) Actuator in accordance with claim 1, ~~characterized in that it comprises~~ further comprising means to ensure that the distant position of the plate corresponds to an open position of the valve.
3. (Currently Amended) Actuator in accordance with ~~one of the above~~ claim~~[[s]]~~ 1 or 2, ~~characterized in that it comprises~~ further comprising means to move the plate ~~(302, 502)~~ away from the electromagnet ~~(300, 504, 506)~~ by annulling or inverting the ~~direction of the~~ supply current of the latter electromagnet.
4. (Currently Amended) Actuator in accordance with ~~one of the above~~ claim~~[[s]]~~ 1 or 2, ~~characterized in that~~ wherein the plate ~~(302, 502)~~ is maintained at such a distance that ~~[[the]]~~ a rod ~~(510)~~ of the valve ~~will be~~ is distant from a rod ~~(508)~~ of the plate controlling ~~[[this]]~~ the valve.
5. (Currently Amended) Actuator in accordance with ~~one of the above~~ claim~~[[s]]~~ 1 or 2, ~~characterized in that, with~~ wherein the electromagnet ~~(300, 504, 506)~~ ~~having the~~ has a shape of an E provided with a central branch ~~(304)~~ and two end branches, the plate has across section ~~(S_p)~~ which is one of smaller than ~~[[the]]~~ a cross section ~~(S_{e/2})~~ of the end branches and~~[[/or]]~~ smaller than half ~~[[the]]~~ a cross section ~~(S_e)~~ of the central branch.

6. (Currently Amended) Actuator in accordance with ~~one of the above~~ claim[[s]] 1 or 2, ~~characterized in that, with~~wherein the electromagnet ~~having the shape of an E~~has an E-shape and, [[a]]at least one magnet is fixed at the end of ~~these~~at least one of the branches of the E-shaped electromagnet opposite the plate.

7. (Currently Amended) Actuator in accordance with ~~one of the above~~ claim[[s]] 1 or 2, ~~characterized in that~~wherein the mechanical restoring action is generated by at least one spring.

8. (Currently Amended) Internal combustion engine equipped with an electromechanical valve actuator, comprising a polarized electromagnet ~~(300; 504; 506)~~ and a mobile magnetic plate ~~(302; 502)~~ subjected to a mechanical restoring action, ~~characterized in that~~wherein the actuator is according to ~~one of the above~~ claim[[s]] 1 or 2.